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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/038,891	01/02/2002	Jeffrey T. Borenstein	910000-2028.1	8813	
20999 75	590 10/06/2004		EXAM	EXAMINER	
	AWRENCE & HAUG ENUE- 10TH FL.		NAFF, D	NAFF, DAVID M	
NEW YORK,			ART UNIT	PAPER NUMBER	
		*.	1651	-	
		•	DATE MAILED: 10/06/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applicant(s)				
Office Action Summary		10/038,891	BORENSTEIN ET AL.				
		Examiner	Art Unit				
		David M. Naff	1651				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence ad	idress			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply opened for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered time the mailing date of this o D (35 U.S.C. § 133).	ly. communication.			
Status							
1)⊠	Responsive to communication(s) filed on 21 Ju	<u>ly 2004</u> .					
2a) <u></u> □	This action is FINAL . 2b)⊠ This	action is non-final.					
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims		* .				
4)⊠	4) Claim(s) 1-37 is/are pending in the application.						
	4a) Of the above claim(s) <u>27 and 33-37</u> is/are withdrawn from consideration.						
5)	5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1-26 and 28-32</u> is/are rejected. 7) ☐ Claim(s) is/are objected to.						
8)[_]	Claim(s) are subject to restriction and/or	election requirement.					
Applicati	on Papers						
9)	The specification is objected to by the Examiner						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
44	Replacement drawing sheet(s) including the correcti	•		` '			
11)[]	The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form P	ГО-152.			
Priority u	ınder 35 U.S.C. § 119						
_	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
	1. Certified copies of the priority documents	have been received.					
	2. Certified copies of the priority documents	• •					
	3. Copies of the certified copies of the priori		d in this National	Stage			
* 0	application from the International Bureau See the attached detailed Office action for a list of		٠				
3	ne attached detailed Office action for a list (or are cerunea cobies nor teceive	u.				
Attachment	t(e)						
	e of References Cited (PTO-892)	4) Interview Summary ((PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te	2.450)			
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 11/6/02.	5) Notice of Informal Pa 6) Other:	sterit Application (PTC	J-152) _,			

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DETAILED ACTION

In a response of 7/21/04 to a restriction requirement of 6/18/04, applicants elected Group I claims 1-26 and 28-32 with traverse.

Applicants urge that searching the additional inventions will not be an undue burden and that the search for all claims is co-extensive. However, because of the differences in the claimed inventions as noted in the restriction requirement, searching all inventions, or inventions I, II and IV, together will be an undue burden and the search is not necessarily co-extensive. The devices of inventions I and IV clearly have different structure, and this requires different searches. Invention I clearly does not require steps of the method of invention II, and this requires different searches.

If the device of invention I is found allowable, a method requiring the device may be rejoined.

Claims 27 and 33-37 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 7/21/04.

Claims examined on the merits are 1-26 and 28-32.

Specification

The disclosure is objected to because of the following informalities: the abstract is objected to as containing two paragraphs.

Appropriate correction is required.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-26 and 28-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Weiss et al (6,143,293) in view of Vacanti et al (6,139,574) and Mastrangelo et al (6,136,212), and if necessary in further view of Cima et al (5,518,680) or Marra et al (6,165,486).

The claims are drawn to a multilayer device containing a first layer for attachment and culturing of cells and containing a pattern of microchannels, and a second layer for attachment and culturing of cells, and the first and seocond layers being fastened together.

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Weiss et al disclose a scaffold containing multiple layers fastened together for cell culture that is the same as presently claimed except for the presence of microchannels.

Vacanti et al disclose a scaffold for tissue regeneration containing interconnected pores.

Mastrangelo et al disclose producing microfluidic devices containing microchannels.

It would have been obvious to provide a layer of the scaffold of Weiss et al with interconnecting microchannels as suggested by Vacanti et al disclosing a scaffold having interconnected pores and Mastrangelo et al disclosing producing microfluidic devices having microchannels. Microchannels in the scaffold of Weiss et al would have been expected to be advantageous for the same type of reason that Mastrangelo et al found such channels to be advantageous. If needed Cima et al or Marra et al would have further suggested scaffold structure. The conditions of dependent claims would have been matters of obvious choice in view of the disclosures of the references. The methods of claims 25, 26 and 28-32 would have been obvious methods of making the scaffold in view of the methods disclosed by the references.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M. Naff whose telephone number is 571-272-0920. The examiner can normally be reached on Monday-Friday 9:30-6:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David M. Naff Primary Examiner Art Unit 1651

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DMN 10/4/04